

Monitoring Data Record

Project Title: R-2568B (Site 4) COE Action ID: 200121280
 Stream Name: UT to Rich Fork Creek DWQ Number: 3478
 City, County and other Location Information: Davidson Co, NC 109 from North of I-85 Business to North of SR 1756 (Lexington Ave.) Sta. 46+60 to 47+80 -L-
 Date Construction Completed: water was turned on 8/29/05, planted on 2/17/06
 Monitoring Year: (5) of 5
 Ecoregion: _____ 8 digit HUC unit 03040103
 USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 315' Urban or Rural: Rural Watershed Size: _____
 Monitoring DATA collected by: M. Green & J. Young Date: 6/17/10

Applicant Information:

Name: NCDOT Roadside Environmental Unit
 Address: 1425 Rock Quarry Road Raleigh, NC 27610
 Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov

Consultant Information:

Name: _____
 Address: _____
 Telephone Number: _____ Email address: _____

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (1) 2 3

Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 4 reference points, 2 photos at each
Dates reference photos have been taken at this site: 7/18/06, 2/28/07, 8/22/07, 1/23/08, 8/15/08, 1/15/09, 8/10/09, 3/1/10, 6/17/10

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference: A site map with photo point locations is included with this report.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:_____

ADDITIONAL COMMENTS: Planted hardwood vegetation noted onsite includes: black willow and silky dogwood live stakes. Other vegetation noted onsite includes: goldenrod, sedge, *Scripus* sp., sycamore, tulip poplar, woolgrass, red maple, sweetgum, jewelweed, cattail, lespedeza, mimosa, *Juncus* sp., and various grasses. The streambank and floodplain were live staked with black willow and silky dogwood species. NCDOT proposes to discontinue plant survival monitoring at the UT to Rich Fork Creek stream relocation.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The channel is stable throughout the entire onsite stream relocation for the Year 5 Summer evaluation. There have been a total of five bankfull events visually documented during the five year monitoring period. These bankfull events were documented on the following dates: 7/18/06, 2/28/07, 1/23/08, 1/15/09, and 3/1/10. NCDOT proposes to discontinue channel stability monitoring at the UT to Rich Fork Creek stream relocation.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					

Section 4. DEBIT LEDGER

The entire UT Rich Fork Creek stream mitigation site was used for the R-2568B project to compensate for unavoidable stream impacts.

UT Rich Fork Creek



PP #1 (Upstream)



PP #1 (Downstream)



PP #2 (Upstream)



PP #2 (Downstream)



PP #3 (Upstream)

Year 5 Summer – June 2010



PP #3 (Downstream)

UT Rich Fork Creek



PP #4 (Upstream)



PP #4 (Downstream)

Year 5 Summer – June 2010

